ARTESYN ASA SERIES

6 Watts



The ASA series of high-input 6 watt isolated DC-DC converters features an ultra wide 4:1 input voltage range of 18–75 Vdc and is primarily designed for use with nominal 48 V supplies. There is a choice of four single output models, offering voltages of 3.3 V, 5 V, 12 V or 15 V, and three dual output models offering +5/-5 V, +12/-12 V or +15/-15 V. The converters are fully encapsulated in a compact 1.25 x 0.8 inch (31.7 x 20.3 mm) metal case and have a height of just 0.4 inch (10.2 mm). They are ideal for ruggedized applications involving harsh environments.

DATA SHEET

Total Power:

6 Watts

Input Voltage:

12 V, 24 V or 48 V

# of Outputs:

Single, Dual

SPECIAL FEATURES

- Encapsulated
- Wide 4:1 input range
- 1.25” x 0.8” DIP package
- 1500 Vdc I/O isolation
- Single and Dual output
- Vibration meets Mil-STD-202G

SAFETY

- UL/CSA 62368-1
- CE Mark

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ELECTRICAL SPECIFICATIONS

Input	
Input range	9 to 36 Vdc; 18 to 75 Vdc
Efficiency	81% @ 5 Vo (Vin = nom; Iout = Iout max; Ambient temperature = 25 °C)
Output	
Voltage tolerance	±2.0%
Line regulation	±0.5%
Load regulation	Single output: 1% @ 3.3 Vo Other: ±0.5% Dual output: ±3.0%
Noise/ripple	3.3 Vo, 5 Vo: 100 mV 12 Vo: 120 mV 15 Vo: 150 mV
Short circuit protection	Auto-restart
Switching frequency	200 KHz
Temperature coefficient	±0.02 / °C
Isolation	
I/O isolation	1500 VDC min.
Insulation resistance	10 Mohm
Insulation capacitance	1000 pF

ENVIRONMENTAL SPECIFICATIONS

Operating ambient temperature range	-40 °C to +71°C (no derating)
Storage temperature	-55 °C to +105 °C
Humidity	5% to 95% (non-condensing)
MTBF	1 Mhrs demonstrated MTBF
RoHS 6 compliant	Yes

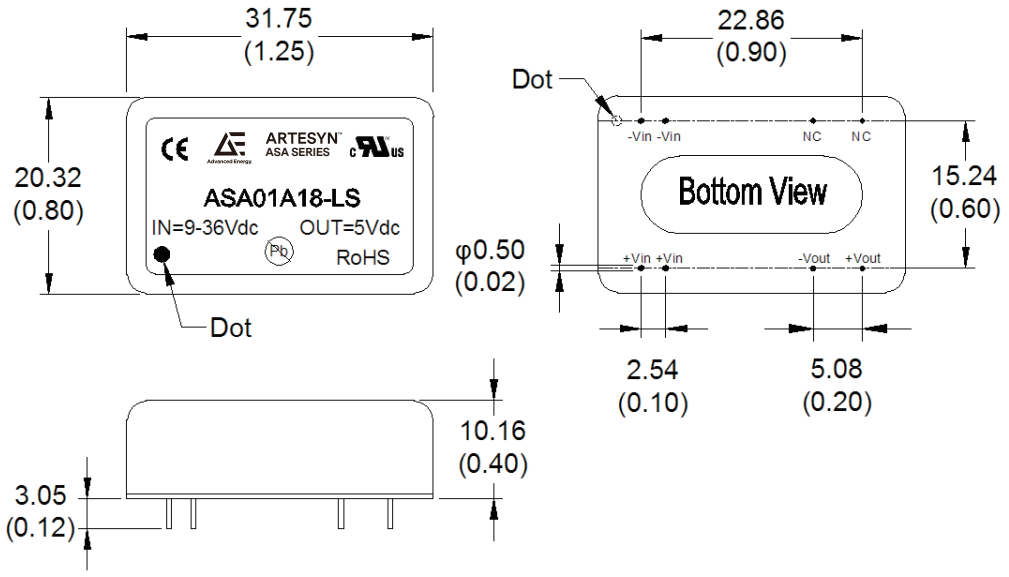
ORDERING INFORMATION

Model Number	Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power
ASA01F18-LS	9 - 3 6 V	3.3 V @ 1.2 A		3.96 W
ASA01A18-LS	9 - 3 6 V	5 V @ 1.00 A		5 W
ASA00B18-LS	9 - 3 6 V	12 V @ 0.50 A		6 W
ASA00C18-LS	9 - 3 6 V	15 V @ 0.40 A		6 W
ASA00AA18-LS	9 - 3 6 V	5 V @ 0.50 A	-5 V @ 0.5 A	5 W
ASA00BB18-LS	9 - 3 6 V	12 V @ 0.25 A	-12 V @ 0.25 A	6 W
ASA00CC18-LS	9 - 3 6 V	15 V @ 0.20 A	-15 V @ 0.20 A	6 W
ASA01F36-LS	18 - 75 V	3.3 V @ 1.2 A		3.96 W
ASA01A36-LS	18 - 75 V	5 V @ 1.00 A		5 W
ASA00B36-LS	18 - 75 V	12 V @ 0.50 A		6 W
ASA00C36-LS	18 - 75 V	15 V @ 0.40 A		6 W
ASA00AA36-LS	18 - 75 V	5 V @ 0.50 A	-5 V @ 0.5 A	5 W
AEE00BB36-LS	18 - 75 V	12 V @ 0.25 A	-12 V @ 0.25 A	6 W
ASA00CC36-LS	18 - 75 V	15 V @ 0.20 A	-15 V @ 0.20 A	6 W

Please contact Artesyn Embedded Power for information on other output voltages, power ranges and configurations. Available in RoHS 6 version only.

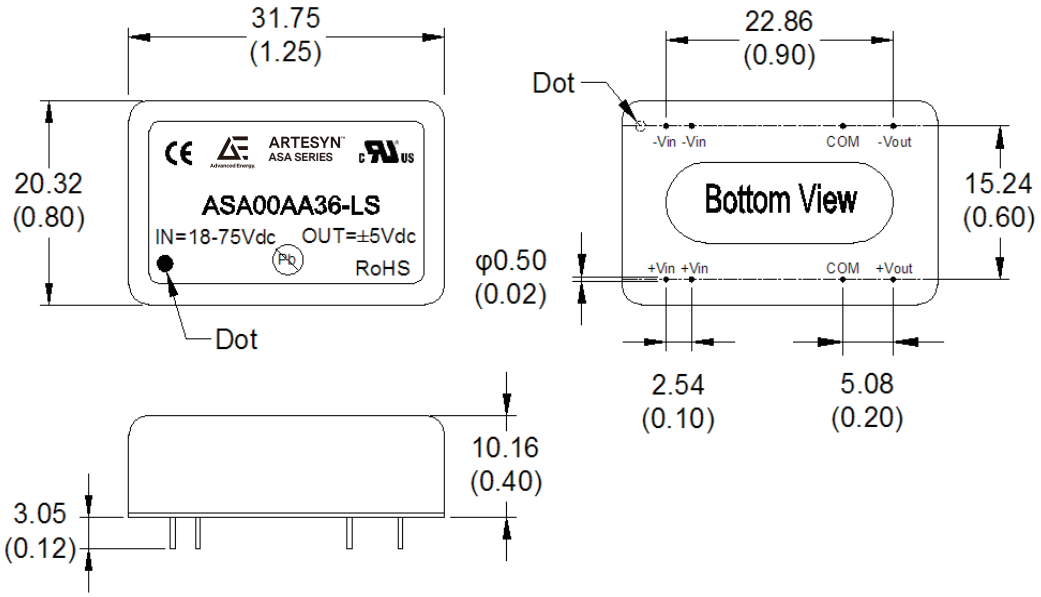
MECHANICAL DRAWINGS

Single Output



MECHANICAL DRAWINGS

Dual Output



Notes:
1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 1 yr
3. Label and logo appearance may vary from what is shown on mechanical drawings.

ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

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